

Eurostar Staramide PK005EI2 PA6, Mineral Fiber Filled, Impact Modified Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Mineral Reinforced, Impact Grade

Material Notes:

Staramide PK005EI2 is an Impact Modified Mineral Filled Polyamide 6 Injection Molding Resin. Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Staramide-PK005EI2-PA6-Mineral-Fiber-Filled-Impact-Modified-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm @Thickness 4.00 mm	0.0060 - 0.0080 in/in @Thickness 0.157 in	E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	5 mm/min; ISO 527
Elongation at Break	>= 8.0 %	>= 8.0 %	5 mm/min; ISO 527
Tensile Modulus	3.60 GPa	522 ksi	1 mm/min; ISO 527
Flexural Yield Strength	70.0 MPa	10200 psi	2 mm/min; ISO 178
Flexural Modulus	3.60 GPa	522 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	70.0 kJ/m ²	33.3 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	56.0 °C	133 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af

Processing Properties	Metric	English	Comments
Zone 1	240 - 250 °C	464 - 482 °F	
Zone 2	250 - 260 °C	482 - 500 °F	
Zone 3	250 - 260 °C	482 - 500 °F	
Melt Temperature	250 - 260 °C	482 - 500 °F	
Mold Temperature	50.0 - 90.0 °C	122 - 194 °F	
	80.0 °C	176 °F	

Drying Temperature Processing Properties	Metric @ Time 14400 sec	English @ Time 4.00 hour	Comments
Moisture Content	0.20 %	0.20 %	

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